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Form PTO-948 (Rev. 8-98) U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office Application No. 09/1373291

**NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW**

The drawing(s) filed (insert date) 08/12/99 are

A. approved by the Draftsperson under 37 CFR 1.84 or 1.152.
B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings, when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: **NON-STYLIZED ARRANGEMENT OF VIEWS.** 37 CFR 1.84(j)

- Black and white prints, drawings, and prints in color.
- Color drawings are not acceptable until petition is granted.
- Fig(s) _____
- Pencil and non black ink not permitted; Fig(s) _____

2. PHOTOGRAPHS. 37 CFR 1.84 (b)

- 1 full-tone set is required. Fig(s) _____
- Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____
- Poor quality (half-tone). Fig(s) _____

3. TYPE OF PAPER. 37 CFR 1.84(c)

- Paper not flexible; strong; white; and durable. Fig(s) _____
- Fig(s) _____
- Erasures, alterations, overwritings, inkblotches, and smudges. Fig(s) _____
- Handwritten, copy machine, marks not accepted. Fig(s) _____
- Mylar, velum paper is not acceptable (too thin). Fig(s) _____
- Fig(s) _____

4. SIZE OF PAPER. 37 CFR 1.84(d): Acceptable sizes:

- 21.0 cm by 29.7 cm (DIN size A4) Fig(s) _____
- 21.6 cm by 27.9 cm (8 1/2 x 11 inches) Fig(s) _____
- All drawing sheets not the same size. Fig(s) _____
- Sheet(s) _____
- Drawings sheets not an acceptable size. Fig(s) _____

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

- Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm
- SIZE: A4 Size Fig(s) _____
- Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
- SIZE: 8 1/2 x 11 (letter) and DIN A4. However, margins not acceptable. Fig(s) _____
- Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____

6. VIEWS. 37 CFR 1.84(h):

REMINDER: Specification may require revision to correspond to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

- Brackets needed to show figure as one entity. Fig(s) _____
- Views not labeled separately or properly. Fig(s) _____
- Enlarged view not labeled separately or properly. Fig(s) _____

7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)

- Hatching not indicated for sectional portions of an object. Fig(s) _____
- Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(j):

- Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
- Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____

9. ESCALATION. 37 CFR 1.84(k):

- Lines, numbers and letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) _____
- Solid black areas pale. Fig(s) _____
- Solid black shading not permitted. Fig(s) _____
- Shade lines pale, rough and blurred. Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l):

- Lines, numbers and letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) _____
- Solid black areas pale. Fig(s) _____
- Solid black shading not permitted. Fig(s) _____
- Shade lines pale, rough and blurred. Fig(s) _____

11. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p):

- Numbers and reference characters not plain and legible. Fig(s) _____
- Figure legends are poor. Fig(s) _____
- Numbers and reference characters not oriented in the same direction as the view. (37 CFR 1.84(p)(1)) Fig(s) _____
- English alphabet not used. 37 CFR 1.84(p)(2)
- Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)

12. LEAD LINES. 37 CFR 1.84(q):

- Lead lines cross each other. Fig(s) _____
- Lead lines missing. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i):

- Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u):

- Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w):

- Corrections not made from prior PTO-948 dated _____

17. DESIGN DRAWINGS. 37 CFR 1.152

- Surface shading shown not appropriate. Fig(s) _____
- Solid black shading not used for color contrast. Fig(s) _____

REVIEWER LAM DATE 10/29/99 TELEPHONE NO. (703) 308-0866

ATTACHMENT TO PAPER NO.